

AMENDMENT TO THE CLAIMS:

Please amend the claims as follows:

1 - 14. (Cancelled)

15. (Previously presented) An infrared detector comprising:

a thermal resistor composed of a metal oxide having a perovskite structure;

an electric field applying unit operable to apply an electric field to the thermal resistor,

the electric field applying unit and the thermal resistor sandwiching an insulator; and

a detecting unit operable to, in a state where the electric field is being applied to the thermal resistor by the electric field applying unit, detect an amount of received infrared light using the thermal resistor.

16. (Original) The infrared detector of Claim 15 further comprising

a changing unit operable to cause the electric field applying unit to change an intensity of

the electric field.

17-18. (Cancelled)